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नई विस्स्री, शनिवार, जून 22, 1985 (आषाढ़ 1, 1907)

No. 25]

NEW DELHI, SATURDAY, JUNE 22, 1985 (ASADHA 1, 1907)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के इन्न में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस Notifications and Notices issued by the Patent Office relating to Patents and Designs)

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Calcutta, the 22nd June, 1985

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APPLICATION FOR PATENT FILFD AT THE HEAD OFFICE 214. ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 16th May, 1985

- 371|Cal|85. Veb Kombinat Nagema. Plate heat exchanger for heating or cooling liquid substances.
- 372 Cal 85. Harson Corporation Bridge Transporting and anylong trailer and method.

The 17th May, 1985

- 373 Cal 85 Gea Luftkuhlerge.ellschaft Happel GMBH & Co. Device for transferring the cooling water of a wet cooling tower or a wet-div cooling tower to recycling system for water distribution.
- 37 Cal | 85 Hopethet Altrengesellschaft Process for preparing acid native dyestuffs.
- 375 C: 1185 Washington University. Method and apparatus for centing particles of liquid droplets.

The 18th May 1985

- 376 Cal 85 Ethicon Inc Surgical filaments from vinylidene fluoride copolymers.
- 377 Cal | 75 Metalloesellschaft Aktiengesellschaft Sliding valve for closing in outlet of supply containers for bulk materials during assembling operations.
- 378'Cal[85 Datametall c Corporation, Mechanical seal assembly with coolant circulation structure.
- 379'Cal|85 Fluor Cot, ution An apparatus for producing power
- 380 Cal|85 Wella Aktiengesellschaft. Oxidative hair dyes based on a low-viscosity carrier material.
- 381 Cell 85 Veb Stahl-und Walzwerk "Wilhelm Florin". Improvements in the method of tampering rolled steel products

The 20th May, 1985

- 382, Cal 85 Veb Kombinat Nagema A drum for centrifugal Separators.
- 383 C:1185 F. 1 Du Pont De Nemours and Company, Improved continuous process and new interlaced rolvester yarns

The 21st May, 1985

- 384|Col₁85 Union Carbide India Limited, A process for recovery of unreacted catechol. [Division of Application No 261 Cal[84 21-1-1984].
- 385 Call 85 Planorg Mernoki II oda GM. Method for transporting liquid substances by utilizing the potential energy of an operating fluid and liquid column machine for the implementation of the technique.
- 386|Cal|85 Th Tea Technocrats Intermedium Fluidiser.
- 387|Cal¹85 Tea-Ma Consortium India Limited. Self-Sealing paper sack

The 22nd May, 1985

- 388 Cal 85 Esmond Fonseca, Randhi Venkata Ramesh and Fredrick Ftto Assembly of sections, panels or any other prefabricated items. (Division of Application No 290 Cal 82 (19-2-1983).
- 389 Ca¹ 85 Stefan Svenson Put fication of Biological material.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALIAJAH ROAD, MADRAS-600 002.

The 6th May, 1985

341 Mas 85. Mecmag Private Limited. A ferrite motor assembly for a magneto.

The 7th May, 1985

- 342 Mas 85, M. Andrew Ross, Compact crank drive mechanism.
- 343 Mas 85. Uponor AB. Sludge and exrement container.
- 344 Mas 85. Aluminium Pechiney. Apparatus for continuous flow to disc-type rotary filters.
- 345 Mas 85. Aluminium Pechiney. A carbonaceous anode with partially constricted round bars intended for cells for the production of aluminium by electrolysis.
- 346 Mas 85 Michio SUDO. Process and apparatus for manufacturing a cylindrical multi-layer film of synthetic resin.
- 347|Mas|85 KMK Karl Magetle Lizenz AG. Foil advancing unit for a tube producing machine
- 348 Mas 85. Atochem. Process for the manufacture of hydrofluoric acid by reaction of sulphuric acid with fluorospar in a rotating oven.
- 349 Mas 85. Metal Box p.l.c. Containers for pressurised products (May 8, 1984; United Kingdom).

The 8th May, 1985

- 350 Mas 85. Intech Systems Corpn. Differential hearing aid with programmable frequency response. (April 9, 1985; United Kingdom). T.P.O. "Pharmachim".
- 351 Mas 85. Penicilinic Derivatives and method for their preparation
- 352 Mas 85. Allied Tube & Condut, Corporation, Mill for roll forming a fluted tube.
- 353 Mas 85. Arbed S A. Method and apparatus for the acceleration of solid particles entrained in a carrier gas.

The 9th May, 1985

- 354 Mas | 85. Alexander Ian Wilson. Method of forming metal.
- 355 Mas 85. Dr. G.P.R Palnitkar. Semi cylindrical solar water heater.

The 10th May, 1985

- 356 Mas 85. Thomes Water Authority. Improvements relating to clean water treatment. (May 11, 1984; Great Britain).
- 357 Mas 85. Otta Parstad, Drilling fluid

COMPLETE SPECIFICATION ACCEPTED

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CLASS: 94C-G.

156308.

A WET GRINDER.

Applicant & Inventor: THIRUMALAI ANANDAM PILLAI VIJAYAN, C|O. T. S. RAMANATHAN, POYA-PAKKAM VILLAGE, (VIA) VILLUPURAM, TAMIL NADU, CODE NO. 605 602.

Application No. 18 Mas 82 filed January 30, 1982.

Complete specification left: January 28, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A wet grinder comprising a vessel having a horizontal floor formed of a substantially flat stone provided with a circular shallow flat bottomed pit where through is disposed an elvatable inner circular stone fitting the said pit and worked by a lever, the said inner circular stone having on its upper surface a cylindrical stone placed horizontally on it, the said cylindrical stone being provided with a drive shaft and the said drive shaft is capable of being driven by a motor, the said cylindrical stone capable of freely revolving on the circular stone in a supporting axis, formed by two vertical supports, and crushes the grain between it and the inner stone.

(Prov. 2 pages; Com. 8 pages; Drwgs. 2 sheets).

GLASS: 134-A.

156309.

Int. Cl. F 16c 11|06.

AN IMPROVED TIE ROD END BALL JOINT.

Applicant & Inventor: MANJESHWAR GURUDUTT, OF "GURUPRASAD", NO. 8, 16TH CROSS ROAD, MALLES-WARAM, BANGALORE-560 055, KARNATAKA.

Application No. 169 Mas 82 filed September 3, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

17 Claims

An improved tie rod end ball joint comprising a housing having openings at upper and lower ends thereof and a ball pin having a stem portion and a ball portion, said ball portion being movably located within a vertically split socket housed in said housing, said split socket being provided with a part spherical inner recess to take said ball portion and a tapered outer surface matching with the correspondingly tapered inner wall of the housing, the upper end opening of the housing being closed by an adjustable closing means which bears on the ball-head-side of the socket, the stem portion of the ball pin which projects out through the lower end opening of the housing is provided with a part spherical sealing member which snugly fits against the correspondingly shaped outer peripheral surface of the lower end if the housing and wherein the centres of said outer peripheral surface of the lower end of the housing and the sealing member coincide with the centre of the ball portion of the ball pin.

(Compl. specn. 10 pages. Drwgs. 1 sheet).

CLASS: 40-E & F.

156310.

Int. Cl. B 01 j 1 00.

PROCESS FOR THE REMOVAL OF UREA, AMMONIA AND CARBON DIOXIDE FROM DILUTE AQUEOUS SLUTIONS.

Applicant: UNIE VAN KUNSTMESTFABRIEKEN B.V., OF MALIEBAAN 81, P.O. B. 45, 3500 AA UTRECHT, THE NETHERLANDS.

Inventors: 1. JAN ZUIDAM, 2. PETRUS JOHANNES MARIE VAN MASSAU, 3. PIERRE GERARD MARIE BERNARD BRULS, 4. KEES JONCKERS.

Application No. 1281 Cal 81 filed November 18, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

In a process for the recovery of ammonia and carbon-dioxide which are partly present in the form of urea and related compounds in dilute aqueous solutions such as herein described by hydrolysis of urea, followed by desorption of ammonia and carbon dioxide, wherein the improvement comprises in passing the solution at a pressure of between 10 and 30 bay into the top of a reaction column of the type hereindescribed and causing to flow downward therein counter-currently to a gas stream, maintaining in the top of said column a temperature of between 180 and 220°C and in the bottom a temperature of between 180 and 230°C, whereby a gas mixture containing ammonia, carbon dioxide and water vapour is carried off from the top of the column and from the bottom a substantially, at a pressure of 1-5 bar, ammonia and carbon dioxide are recovered from this solution.

(Compl. Specn. 10 pages. Drgs. 1 sheet).

CLASS: $172-C_1$.

156311.

Int. Cl. D 01 g 15|02.

DEVICE FOR CONTROLLING AND REGULATING A CARDING MACHINE.

Applicant: TRUTZSCHLER GMBH & CO. KG., OF DUVENSTRASSE 82-92, D-4050 MONCHENGLADBACH 3, WEST GERMANY.

Inventor: 1. FRITZ HOSEL.

Application No. 543 Cal 82 filed May 14, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

27 Claims

Device for controlling and regulating a carding machine in which for the determination and adjustment of machine-related and fibre-technological desired values relating to the characteristics of the machine and the fibre, there is provided at least one technoalternator connected to at least one electronic micro-computer control and regulating instrument with which is associated a desired value generator and at least one variable speed meter for controlling operation of the carding machine, characterized in that, for the determination and adjustment of all machine-related and fibre-technological desired values relating to all the characteristics of the carding machine, the tachno-alternators (21, 26, 30) are connected to an analogue/digital converter (22) which is in communication with an electronic micro-computer controlling and regulating instrument (7) which is connected to analogue/digital energy transducers (24, 27) to which variable speed motors (25, 28) for controlling or driving parts of the carding machine are connected, wherein the controlling and regulating instrument (7) is able to link the machine-related and fibre-technological characteristics in two-way communication.

(Compl. Speen, 25 pages, Drgs 6 sheets).

CLASS: 69-A.

156312.

Int. Cl. H 01 h 7/00.

A PHOTO ELECTRIC SWITCHING SYSTEM FOR ELECTRIC LIGHTS.

Applicant & Inventor: RATTAN SINGH, OF 19, RUP NARAYAN NANDAN JANE, CALCUTTA-700025. INDIA.

Application No. 624 Cal 82 filed May 31, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules. 1972), Patent Office, Madras Branch.

6 Claims

A photo electric switching system for electric lights in which a contractor is provided in an electric power supply circuit of the electric lights, energising coil of the contractor being connected across of power supply lines through contacts of a relay, energising coil of the relay being connected between the collector of a p-n-u transi toward negative terminal of a rectifier bridge, the emitter of the transistor being connected to the positive terminal of the inclifier bridge and a light dependent resistance is connected between the base of the transistor and the negative terminal of the bridge.

(Compl. Specn. 6 pages. Drgs. 1 sheet).

CLASS: 47-B.

156313.

Int. Cl. C 10 b 49 10.

A FLUIDIZED BED APPARATUS.

Applicant: KRW ENERGY SYSTEMS INC. OF THREF GREENWAY .PLAZA, HOUSTON, TEXAS 77046, UNIT-FD STATES OF AMERICA.

Inventors: 1 GAUTAM ISHWERIAL MEHTA, 2. LYNN MARIE ROGERS.

Application No 1377 Cal 82 filed November 26, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A fluidized bed apparatus for the gasification of carbonaceous materials, in which the material input rate is regulated by controlling the bed height, said apparatus comprising a vessel in which a particulate material is fluidized by fluidizing gas flowing upwardly through said vessel, and wherein the flow of at least one of said particulate material and said gas is controlled by a control signal decuced from pressure detectors associated with said vessel so as to generate a predetermined bed height, characterized in that the interior of the vessel is divided into a plurality, of adjacent zones and a bed height detecting system connected to the vessel and comprising means for periodically measuring across each said zones, the differential pressure of gas and data processing means for receiving from said measuring means signal representative of gas pressure differential measurements and generating said control signal representative of the bed height, whereby material input rate is regulated.

(Compl. Specn. 12 pages. Drgs. 2 sheets).

CLASS: 55-E4

156314

Int. Cl. B 30 b 11|24.

PROCESS FOR SANITIZING PSYLLIUM HYDROPHILIC MUCCILOID BY FXTRUSION.

Applicant: G. D. SEARIE & CO. OF P.O. BOX-1045, SKOKIE, ILLINOIS 600 76. U.S.A.

Inventors: 1. JAMES GEORGF YOUNG, 2. JOHN ANDREW COLLIOPOUI OS, 3. MARTIN STEVEN ROBIN, 4. DAVID BARNER PAUL.

Application No. 923 Cal 83 filed July 23, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A process for sanitizing psyllium hydrophilic mucilloid without substantially affecting the useful properties, comprising subjecting psyllium hydrophilic mucilloid to moist heat such that the internal product temperature is from 80°C to 120°C, under conditions such that the pressure is above 500 psi while concurrently extruding to ambient temperature and pressure.

(Compl. Specn. 15 pages. Drgs. 1 sheet).

CLASS: 47-E & 85-B.

156315.

Int Cl. C 10 b 29|02.

CLAMPING SYSTEM FOR PREVENTING DETRI-MENTAL TENSILE AND SHEARING STRESSES IN BRICK WALL PLATES

Applicant: KRUPP-KOPPERS GMBH, OF MOLTKES-TARSSE 29, 4300 ESSEN 1, WEST GERMANY.

Inventors 1. HEINZ DURSHLEN, 2. JURGEN NEITZEL, 3. ARNULF SCHUFFLER, 4. WALTER STANKE.

Application No. 1103 Cal 81 filed October 1, 1581.

Appropriate Office for Opposition Proceedings & (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

32 Claums

A clamping system for preventing detrimental tensile and shearing stresses in a brick wall plate defining opposite end laces, a central plane, an upright central line and horizontal upper and lower edges at each tid face, such as wall partitions in industrial turnaces, particularly heating partitions in coking ovens and the like, which are subject to both thermal and mechanical loads, the system comprising at least one clamping plate applicable against one end face of the wall plate, a yoke-shaped beam, cross tie rods connectable to the beam to apply clamping forces thereto, and pressing elements insertable between said beam and said clamping plate to transter the clamping forces via said clamping plate into said wall plate, the arrangement of the cross tie rods, of the beam, of the clamping plate and of the arrangement of the interposed pressing elements being such as to fulfil at least one of the following conditions:

- (a) clamping forces starting approximately midway between said upper and lower edges decrease toward respective edges over a length of about 75% of the distance between these edges according to a bell-shaped or parabolic characteristic curve or according to a curve meeting the equation where F is applied force and L is a half length or height of the end face;
- (b) The resultants of the clamping force, act on midlines of a marginal area of the wall plate or on intermediate planes of the outer layers of the wall plate, these marginal areas having a width of approximately 65 mm, and the forces act at angles when considered in the longitudinal direction of the wall plate in the range between zero and 30°, the force vectors intersect in a plane which is approximately parallel to the clamping plate;
- (c) The effect of interfering local forces in the event of a disturbance are resiliently held within the limits of 5 to 20% of the present clamping forces so as to maintain the desired distribution of the clamping forces over the whole clamping plate.
- (d) Local roughness in excess of 2.5 mm in height is resiliently compensated by the selection of resilient for deformable materials which equalize these unevenesses of the mating surfaces resulting from manufacturing tolerances.

(Compl. Speen 39 pages. Drgs. 10 sheets).

CLASS: 145-D.

156316.

Int. Cl. D 21 f 3,00.

IMPROVEMENTS IN A SUCTION PRESS ROLL FOR DEWATERING A TREVFLLING WEB IN A PAPER MAKING MACHINE.

Applicant: BELOIT CORPORATION, BELOIT, WISCONSIN 53511, U.S.A.

Inventors · 1. LEROY HENRY BUSKER, 2. AMBROSE LANIER GORDON, JR.

Application No. 629 Cal 82 filed June 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Improvements in a suction press roll for dewatering a travelling web in a papermaking machine comprising:
first and second press means defining a press nip therebetween with said second means being a cylindrical press roll:

water receiving means such as a felt for passing through said nip in contact with the roll and carrying a travelling paper web through the nip.

characterized in that

there is a plurality of openings in the roll surface accommedating travel of water from the web through the water receiving means.

said opening being of varying axial depth into the roll (Compl Specn. 10 prizes. Drgs. 1 sheet).

CLASS: 141-4.

156317.

Int. Cl C 10 c 3|14.

METHOD AND EQUIPMENT FOR PRODUCING SOLID PITCH GRANULES

Applicant : CARBOCH!MICA ITALIANA S.p.A., OF VIALE REGINA MAKGHERITA, 5. MILAN, ITALY.

Inventors : 1. VALENTINO PETRINI, 2. STEFANO PREDA.

Application No. 730 Cal. 82 tilled June 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Method for producing solid pitch granules characterized by the fact that it includes precooling of the molten pitch down to a temperature approximately 70°C above the softenting point, subsequent extrusion of the rotch through nozzles, partial calibrated cooling of the extruded ropes in water cutting of the ropes in granules, subsequent final cooling in water and final hot air drains

(Compl. Specn. 14 pages. Drg. 1 sheet).

CLASS: 69-I.

156318.

Int. Cl.: H 01 h 33/00.

CIRCUIT BREAKER.

Applicant: NORTHERN ENGINEERING INDUSTRIES PLC., OF NEI HOUSE, REGFNT CENTRE, NEWCASTLE UPON TYNE, NE3 3SB, ENGLAND.

Inventor: 1. ROBERT JAMIS LOGAN,

Application No. 803 Cal 82 filed July, 13, 1982.

Convention dated 12th August, 1981; (24645) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A circult-breaker compising a casing divided into first and second chambers which comain pressurised gas having arcextinguishing properties, first and second terminals mounted in the casing, a fixed annular contact in the first chamber engageable by an annular movable contact which is movable along a line of movement with which both of the contacts are coaxial, a hollow movable contact member which carries the movable contact, a coil coaxial with the line of movement of the contact member, ferro-magnetic body positioned adjacent the coil and mechanism operable to move the contact member along the line of movement to cause engagement and disengagement of the contacts, the coil having one end connected to the first terminal and the other end to the fixed contact, the contact member extending through a part of the casing separating the chambers and having ports controlling communication between the chambers in dependence upon the position of the contact member, the contact member being electrically connected to the second terminal.

(Compl. Speen, 18 pages, Drgs. 4 sheets).

CLASS: $32-F_2b$; $55-E_4$; $60-X_2d$.

156319.

Int. Cl C 07 d 57/38.

PROCESS FOR THE FREPARATION OF PURINE DERIVATIVES.

Applicant: CO PHARMA CORPORATION § 1.1., VIA GABRIELE D' ANNUNZIO 1, GENOVA, ITALY.

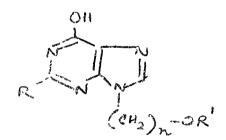
Inventor: 1. PAOLO CORNAGLIA FERRARIS.

Application No. 1081 Cal/82 filed September 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

Process for the preparation of purine derivatives of formula shown in Fig. 3 of the accompanying drawings,



Formula I (Fig. 3)

wherein:

R is hydrogen;

n is an integer from 1 to 6;

R1 represents:

a chanin of the formula -C-NHA

0

wherein A is a group of formula CH-COR4 wherein

 \mathbb{R}^2

R² is the residue of an -aminoacid and R⁴ is OH is OH or the residue of an oligopertide containing 2 to 6 aminoacids; or A is a group of formula

 NH_2

-C-NH-(CH2)3-CH-COR4 wherein R4 has the above

NH

mentioned meanings.

characterized in that a 6-hydroxy-parine of formula P-(CH₂)_n-OH (referred to as 'II' in the scheme appearing hereinafter) wherein n is an integer from 1 to 6, P represents the hydroxypurine part of the formula I is reacted with phosegene and subsequently with an -ammodul or with an oligopeptide of formula H₂N-A (referred to as 'III' in the scheme appearing hereinafter) optionally protected at the carboxyl group according to the following scheme:

wherein A has the above mentioned meanings. (Compl. Specn. 19 pages. Digs. 2 sheets).

CLASS: 85-J & K.

156320.

Int. Cl. F 27 b 15102, 15114.

IMPROVEMENTS TO ENDIESS GRATES CONSTITUTING THE BOTTOM OF A FLUIDIZED BED FURNACE OR REACTOR

Applicant: FIVES-CAIL BABCOCK OF 7 RUE MONTALIVET, 75383 PARIS CEDI'X 08, FRANCE.

Inventors: JACQUES ROURLY, 2 GUSTAVE LOGEZ. Application No. 1467/Cai/82 filed December 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An endless grate constituting the bottom of a fluidized bed furnace or reactor, formed of links articulated on horizontal pins like chain links and comparing side links, drive links and filling-up links, each link consisting of a verticully arraged blads-shared body and a cap whose width is greater than the thick less of the sud body, characterized in that the width of the caps of the filling-up links is nearly equal to that of the side links and drive links and that the tops of the caps are rounded or chainfered to provide a correct suspension of the product constituting the fluidized bed and their edges art thinned to reduce the pressure losses undergone by the gas flowing through the grats.

(Compl. Speen, 7 pages. Drgs. 2 sheets).

CLASS 69-I

156321.

Int. Cl. H 01 h 15100.

OPERATING MECHANISM FOR LOW DC VOLTAGE, HIGH CONTINUOUS CURRENT ELECTRICAL SHUNTING SWITCHES

Applicant: WESTINGHOUSE ELECTRIC CORPORATION, OF WETINGHOUSE BUILDING, TAGEWAY CFNTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA

Inventors: 1. ROBERT MACQUIRE HRUDA. 2. JOHN LEO CUSIMANO.

Application, No. 637 |Cal | 82 filed June 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An operating mechanian tor a tow DC voltage, high continuous current electrical shimting switch which comprises a hermetically sealed switch body, with reciprocably movable switch contacts extending through opposed portions of the switch body, which operating mechanism comprises reciprocating actualting means connected to one of the switch contacts for moving the witch contact toward and away from the other switch contact within the switch body to a closed contact position and an open contact position, characterised in that a latching means beging connected between the reciprocating actualized means and a find morning means said latching

means adapted to maintain the switch contacts in either the closed contact position or open contact position until predetermined force is applied via thereciprocating actuating means to overcome the latch condition and permit movement of the switch contact

(Compl. Specn. 10 pages, Digs. 2 sheets).

CLASS: 1826.

156322.

Int. Class: C13d 3[00.

"CLARIFICATION OF SUGAR CANE JUICE IN THE MANUFACTURE OF SUGAR EMPLOYING THE STEP OF DOUBLE CARBONATION".

Applicants: THE TRIVENI ENGINEERING WORKS LTD., KAILASH, FIRST FLOOR, KASTURBA GANDHI MARG, NEW DELHI-110001 INDIA, AN INDIAN COMPANY.

Invento: : VIRENDRA CHANDRA SRIVASTAVA.

Application for Patent No. 383 DEL 80 filed on 26th May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

5 Clauns

A method of clarifying sugar cane juices continuously in a process for the manufacture of cane sugar including the step of double carbonation of the sugar cane juices comprising the steps of fiftering the sugar cane juices after the first stage of carbonation in one or more leaf filters, treating the mud or slurry extracted from the leaf filter of filters in a rotary vacuum filter, mixing the filtrate overflowing from the leaf filters and the filtrate from the vacuum filter and feeding the mixed filtrates to the second stage of carbonation in a second leaf filter the second stage of carbonation in a second leaf filter for subsequent fleat tent for the extraction of sugar and feeding the flurry extracted from the second leaf filter to the raw sugar cane juice reservoir or tank for rec regulation

(Complete specification 8 pages Drawing 1 sheet).

CLASS: 69 D.

156323.

Int. Class: HO1h 1 00, 50|00

"IMPROVED CONTACTOR".

Applicant JUAN AGUT SANZ OF AVDA, CAUDILLO. 317-10-1a. TARRASA, BARCELONA, SPAIN, A SPANISH CITIZEN

Inventor . JUAN AGUT SANZ

Application for Patent No. 351Del 81 filed on 2nd June, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2°Clainis

Improved contractor, characterised in that there protrudes from the support of movable contacts a central axial prolongation which extends through an opining made in the cover of the centactor and has at its front, a centered transversal noth for housing the recurring by lateral displacement an antagonic shoulder incorporated in the support of another group of auxiliary movable contacts constituting an assembly wherein the coil of the main contactor controls both groups or mo able contacts, and in the title from of the central axial prolongation and at the edges perpendicular to the notch, there are provided guides which in optionally, supplacing the group of auxiliar and interest there is situated a card holder visor which is certified to an outer shoulder provided at the front of auxiliar group and multihermore characterised in that both should, it but notroding from the group of movable coil ets constructs means for minially operating I groups from the carside.

(Complete specification 5 pages Drawing Usheet).

CLASS: 182C.

156324.

Int. Class: C13d 3 00.

IMPROVEMENTS IN OR RELATING TO AN APPARATUS FOR CLARIFICATION OF SUGAR CANE JUICFS IN THE MANUFACTURE OF SUGAR EMPLOYING THE STEP OF DOUBLE CARBONATION".

Applicant: THE TRIVENT ENGINEERING LTD., KAILASH, FIRST FLOOR, KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN COMPANY. Inventor: VIRENDRA CHANDRA SRIVASTAVA.

Application for Patent No. 395 Del 81 filed on 18th June,

Divided out of application for Patent No. 388 Del 80 dated 26-5-1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An apparatus for clarifying sugar cane juices continuously in the manufacture of cane sugar, employing the step of double carbonation, comprising a first filtration overhead tank for receiving the sugar cane juices from the first stage of car-bonation and feeding the juices to one or more leaf filters, a rotary vacuum iller for filtering the under flow purged from the leaf filter or filters, means for mixing the filtrate from the leaf filter or filters and the filtrate from the rotary vacuum filter and feeding the mixed filterates to the second stage of carbonation, a second filtration overhead tank for receiving the juices from the second carbonation stage and feeding the juices to a second leaf filter and means for feeding the mud or slurry extracted from the second leaf filter to the raw sugar cane juice tank or reservoir for recirculation.

(Complete specification 9 pages. Drawing 1 sheet).

CLASS: $32F_5(c)$ 156325

Int. Class: C07d 7|00.

"PROCESS FOR THE PREPARATION OF (+) CATE-CHIN".

Applicant: SRI GANESH RESEARCH INSTITUTE, 104, TILAK BAZAR, DELPI, AN INDIAN REGISTERED BODY, REGISTERED UNDER THE REGISTRATION OF SOCIETIES ACT, 1860.

Inventors: KARTAR SINGH NARANG, NARENDRA' KUMAR RALHAN, AMAR NATH KAUSHAL, MADAN LAL PARMAR, JAGTAR SINGH SODHI TRIBHUWAN KUMAR PANT, VINEET KUMAR SINGHAL AND RAKAM PAL SINGH TEOTIA.

Application for Patent No. 711Deli83 filed on 7th February.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of (+) Catechin having the formula

which comprises refluxing clude Gambier cakes (concentrated and dried agreeous extract of Uncaria Gambier) with organic solvent, the extract obtained is concentrated by heating and allowed to crystallize to give (+)) Catechin which, if desired, is repeatedly refluxed with organic solvent, the alcoholic extract obtained is concentrated and allowed to crystallize to give (+) Catechin of desired purity.

(Complete specification 5 pages. Drawing 1 sheet).

CLASS: $32F_3(c)$

156325

Int. Class: C07d 7|00.

"A PROCESS FOR THE PREPARATION OF (±) CATECHIN"

Applicant: SRI GANESH RESEARCH INSTITUTE, 104, TILAK.BAZAR, DELHI, AN INDIAN REGISTERED EODY, REGISTERED UNDER THE REGISTRATION OF SOCIETIES ACT, 1860.

KARTAR SINGH NARANG, **NARENDRA** KUMAR RALHAN, AMAR NATH KAUSHAL, MADAN LAL PARMAR, JAGTAR SINGH SODHI, TRIBHUWAN KUMAR PANT, VINEET KUMAR SINGHAL AND RAKAM PAL SINGH TEOTIA.

Application for Patent No. 72 Del 83 filed on 7th February,

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch. New Delhi-110005.

4 Claims

A process for the preparation of (\pm) Catechin having the formula

which comprises heating the heartwood of acacia catechu (Khair) with water at a temperature of 100°—120°C, the extract is concentrated by heating and allowed to trystallize to yield (±) Catechin which, if desired, is purified by extraction with methyl or ethyl acetate benzene.

(Complete specification 5 pages. Drawing 1 sheet).

 $CLASS: 32F_2(c)$

156327

Int. Class:—C07d 7 00.

"PROCESS FOR THE PREPARATION OF (-) epi-Catechin".

Applicant: SRI GANESH RESEARCH INSTITUTE, 104, TILAK BAZAR, DELHI, AN INDIAN REGISTERED BODY, REGISTERED UNDER THE REGISTRATION OF SOCIETIES ACT, 1860.

Inventors: KARTAR SINGH NARANG, NARENDRA KUMAR RALHAN, AMAR NATH KAUSHAL, MADAN LAL PARMAR, JAGTAR SINGH SODHI, TRIBHUWAN KUMAR PANT, VINEET KUMAR SINGHAL and RAKAM PAL SINGH TEOTIA.

Application for patent No. 73 Del|83 filed on 7th February, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, NEW DELHI-110005.

(4 Claims)

A process for the preparation of (--) epi-Catechin having the formula

comprising refluxing the heart wood of acacia catechu (Khair) with organic solvent, the solvent is removed by distillation from the extract to yield (—) epi-Catechin which, if desired, is purified by repeated crystallization from methyl acetate ethyl acetate to yield (—) epi-Catechin of desired purity.

(Complete Specification 5 pages Drawing one sheet).

CLASS 129-F

156328 ·

INT. CL. B 23 c 5 20

A SPIRAL FLUTED MILLING CUTTER

Applicant: WIDIA (INDIA) LTD., 8|9TH MILE, TUMKUR ROAD, BANGALORE—560 073, KARNATAKA.

Inventors: (1) NET RAM GUPTA

- (2) AMITAVA SHAM CHOUDHURY
- (3) BAGAVANTHAM GUPTA SUNDARA-MOORTHY

Application No. 28 Mas 82 filed February 9, 1982.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A spiral fluted milling cutter comprising a plurality of flutes carrying indexable inserts arranged in staggered array thereon to cover the entire cutting length thereof, the inserts being clamped to the cutter body by torx screws flush with or embedded in the inserts, each face cutting insert being supported at its back by a pin.

(Com.-5 pages; Drwgs.-1 sheet).

156329

CLASS 28-D & 113(C+D)

INT. CL. F 21 h 1 00 & F 24 c 5 00

A NON-PRESSURE TYPE INCANDESCENT LAMP"

Applicant: SUNSHINF LAMP INDUSTRIES LIMITED, NOWROJI ROAD, VISAKHAPATNAM-530 002, ANDHRA PRADESH.

Inventor: ORUGANTI SREE RAMCHANDRA MURTHY Application No. 41 Mas 82 filed February 19, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A non-pressure type incandescent lamp comprising a base for oil, a burner assembly, a wick in the burner assembly, a mantle above the wick and a narrow chimney theretor, the base having an upright member encircling the burner assembly and having a flanged portion, extending radially, said flanged portion having mounted thereon two or more upright vertical columns extending alongside of the chimney, the top ends of the vertical columns having a top member encircling the top part of the chimney and having support means capable of seating a small vessel for heating liquids, the said top member being provided with a handle member to enable the lamp to be carried as a portable unit.

(Com.—11 pages; Drwgs.—2 sheets).

CLASS 105-(B+C) & 195-(C+D)

156330

INT. CL. F 16 k 17 02

A PRESSURE INDICATIVE GAS CYLINDER VALVE

Applicant & Inventor: KADAMBI SESHADRI, 4, THIRD MAIN ROAD, PAMMAL ANNA NAGAR, MADRAS-600 075, TAMIL NADU.

. Application No. 58 Mas 82 filed March 15, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A pressure indicative gas cylinder valve comprising a housing having first and second parts in threaded engagement and accommodating a spring-loaded valve member normally closing a passage under spring-resilience; an inlet and an outlet provided for the passage, the inlet being connectable to the gas cylinder and the outlet to the point of consumption, whereby gas flowing through the passage at a pressure above a predetermined value (determined by the pressure at which the gas in the cylinder is nearly depleted) actuates the valve member to open the passage, but at or below the presentermined value de-actuates the valve member to close the passage; a stem provided for the first part of the housing, the stem being manually turnable to partly unscrew the first part of the housing from its second part for reducing the spring-resilience and thus permit gas of pressure at or below the predetermined value to actuate the valve member and open the passage.

(Com.--6 pages; Drwg.-- 1 sheet).

CLASS 94E

156331

INT. CL. B 24 b 23 00

A ROLLER WET GRINDER WITH CHIPPER

Applicant & Inventor: SINGARAM GUHANANDHAN, 205-C, THAMBU CHETTY STREET, MADRAS-600 001, TAMIL NADU.

Application No. 68 Mas 82 filed April 1, 1982.

Complete Specification left: December 23, 1982.

Post dated to: December 23, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office, Madras Branch,

2 Claims

A roller wet grinder with chipper comprising a container for receiving the material to be ground, the said container housing a central vertical rofatable shaft coupled to a prime mover; a pair of vertically disposed rollesr coupled to the shaft whereby, as the shaft rotates, the rollers are driven circumferentially, within and on the base of, the container to grind the material; an outlet provided for the container at its bottom for discharging the ground material, the said outlet communicating with a passage having a delivery port normally closed by a manually operable spring-loaded plunger accommodated within the passage, the said port being uncovered, whenever the plunger is drawn outwardly to discharge the ground material characterised by a chipper with lid, the chipper comprising a disc having one or more cutting blades together with a guideway for receiving the stock aligned against the blade or blades and a plug for thrusting the stock down the guideway the disc being detachably attachable to the vertical shaft for being rotatably driven thereby.

(Com.-8 pages: Drwgs. 3 sheets).

CLASS: 128-K.

156332.

Int. Cl. A 61 b=17|04 & A 61 1 17|00.

A PROCESS AND A MACHINE FOR MANUFACTURING IMPROVED SUTURE THREADS.

Applicant: THF SOUTH INDIA TEXTILE RESEARCH ASSOCIATION, COIMBATORE P.O., COIMBATORE-641 014, TAMIL NADU.

Inventor: 1. KASTHURISWAMY. SREENIVASAN, 2. SRINIVASALU NAIDU GOVINDARAJAN 3. SRINIVASA RAO PRADEEP KUMAR BADAMI.

Application No. 82 Mas 82 aled April 28, 1982.

Complete specification left: January 13, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patnts Rules, 1972), Patent Office Madras Bancl.

33 Claims

A process for manufacturing an improved suture thread comprising the steps of:

- (a) coating a thread with a mixture of a polymeric silicone and a known polymerisation catalyst, said polymeric silicone being an organo polysilozone partially substituted with methyl groups and said polymerisation catalyst being so selected that it decomposes or evaporates at the curing step below,
- (b) squeezing and/or stretching the coated thread for ensuring better penetration of the polymeric silicone and for controlling the diameter variation within desired limits.
- (c) curing the thread by heating it at a temperature from 120 to 150°C till the polymerisation is complete, and therafter
- (d) Washing the thread with water and drying it to ensure that the suture thread is free from unreacted polymeric silicone.

A machine for carrying out the process as claimed in any of Claims 1 to 9 comprising (a) a creel fitted with a plurality of bobbins having untreated thread wound thereon, (b) a padding tank containing said polymeric silicone and nolymerisation catalyst, (c) at least one pair of squeezing rollers through which the coated thread passes, (d) a curing chamber provided with conventional heating means for maintaining the desired curing temperature. (e) a washing tank for washing the cured thread, (f) a drying chamber provided with conventional heating means for drying the cured and washed thread, and (g) a winding unit to wind the finished suture thread, as desired.

(Prov. 6 pages; Corn. 17 pages; Drwg. 1 sheet of size 33.00 cms. by 41.00 cms.).

CLASS: 39-E.

156333.

Int. Cl. C 01 b 21/06.

A PROCESS OF MANUFACTURING A NOVEL SILI-CON CARBIDE BASED REFRACTORY PRODUCT. 2—117 GI/85 Applicant: CARBORUNDUM UNIVERSAL LTD., 28, RAJAJI SALAI, MADRAS-600 001, TAMIL NADU.

Inventors: 1. LAKSHMINARAYAN RANGANATHAN 2. NARASIMHAN MANOHAR.

Application No. 87 M 15/82 filed May 5, 1982.

Complete specification left: April 8, 1983.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims. No drawing

A process of manufacturing a novel silicon carbide based refractory product comprising the steps of:

- (a) preparing a homogeneous mixture of silicon carbide grains and metallic silicon in the presence of a known wetting agent,
- (b) subjecting the mixture of step (a) to conventional moulding casting methods to form articles of desired shape and configuration,
- (c) removing excessive moisture from said article by floor drying, and
- (d) firing the resultant product of step (c) in a neutral nitrogeneous atmosphere at a temperature not less than 1450°C to convert the entire silicon present to silicon nitride.

(Prov. 4 pages; Com 7 pages;).

CLASS 2B₂ & 105-C.

156334.

Int. Cl. G 39 f 9 00.

A GANTT PERT BOARD.

Applicant: INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU.

Inventor: SANKARAN RAMANI.

Application No. 185 Mas 82 filed September 29, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A gantt pert board comprising a slotted board; a plurality of elastic bands with means for fixing the ends of each band to any desired slots on the board, the bands indicating activities; a plurality of markers with means for fixing them to any desired slots on the board, the markers indicating events; and a plurality of strips fixed to the board, beneath the bands, the strips being proader than the bands for indicating thereon the name and description of the activities and progress bar charts on either side of the bands.

(Com. 7 pages; Drwg. 1 sheet).

CLASS 24-D,

156335.

Int. Cl. F 16 j (9100 + 15132).

"A DUST COVER FOR WHFEL CYLINDERS OF VEHI-CLE HYDRAULIC BRAKE".

Applicant: BRAKES INDIA LIMITED, PADI, MADRAS-600 050 TAMIL NADU.

Inventors · 1. NAGENHALLI KHADER MOHAMED SHAFI 2, NARASIMHACHARI DIVAKARAN.

Application No. 197 Mas 82 filed October 19, 1982.

Appropriate Office for Opposition Proceedings Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A dust cover for wheel cylinders of vehicle indraulic brake systems, comprising a metal shield or cap having an axial annular part extending at one end to form a radial continuous part; its other end being provided with a plurality of slits at its edge enabling the axial annular part to grip firmly the outer surface of the body of the wheel cylinder when it is fitted over it, the circular end of the radial part integrally moulded with a flexible radial part, the said flexible radial

part having an opening to fit around the puch red of the wheel cylinder resition by highly so at to form a flexible stal around the push red.

(Com. 7 pages. D'wgs. 2 sheets).

CLASS: 24-F.

156336.

Int. Cl. F 16 d 55 12.

A DISC FOR A VEHICLE DISC BRAKE.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, GREAT KING STREET, BIR 4INGHAM-19, FNGLAND.

Inventor : GFRAID ALLAN OTTEWELL.

Application No. 32 Mas 83 filed April 20, 1983.

Convention Date: Notil 27 1782 (No. 8212174): United Lingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Petent Office, Madros Branch.

8 Claims

A disc for a vehicle disc brake adapted for mounting on a hub by means of a compliant mounting, the disc comprising at least two components of arounte outline of which adjacent ends are held together by connecting means, a gap being left between the said adjacent ends to allow for thermal exampsion, and the adjacent ends of the arcuate components are resiliently biassed upart by spring means to ensure that a predetermined circumferential relationship is maintained between the disc components.

(Com. 7 pages; Drwg. 1 sheet)

CLAIM UNDER SECTION 20(1)

In pursuance of leave granted under section 20(1) of the Patents Act, 1970, the application for Patent No. 154208 h s been allowed to proceed in the name of Boili Rajaram and Parjit Sinch Mohindra.

PATENTS SEALED

147832 152370 153201 153290 153291 153293 153294 153309 153314 153315 153317 153418 153323 153330 153362 153363 153364 153365 153366 153368 153369 153370 153372 153373 153376 153377 153370

AMENDMENTS OF PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Asahi Kasei Kogyo Kabushiki Kaisha, a Japanese Joint Stock Company of 2.6, Pojimahama 1-Chome, Kita-Kii, Osaka hi Osaka, Lapan have made an application under section 57 of the Poten's Act, 1970 for amendment of the specification and of their patent application No. 153:36 for "A method for the preparation of a bydrogen—evolution electrode". The amendment are by way of correction to define the in ention more clearly. The application for amendment and the proposed amendments can be inspected free of charge of the Potent Office 214 Acharva Jasadish Bose Road, Calcutta-700:217 or conies of the same can be hid an act and of the principation for amendment may file a notice of charging the application for amendment may file a notice of charging to the prescribed form 30 within three months from the date of this notice fine at the Patent Office Coloutty. If his vittin statement of appointing is notified with the notice of connection it shall be left vittin one month from the date of films the cald notice.

REGISTRATION OF ASSIGNMENTS LICENCES TTO

Assignment of Verrees of other transletions, effecting the interests of the original Potenties have been recistored in the following cases. The number of each case is followed by the names of the natise of timing interests.

127752 127353 127351 127155 130542

INDE VALUNCESLIECHVIE

141249 141338 142533 149557 149170 150085

KABELMETAL ELECTRO GESZELSCHAFT MIT BESCHEANKTER HAFTUNG.

145398 145816 145268 146969

146703

146810 (20-08-1977)

SATWIC PLECTRIC CONTROLS PRIVATE LIMITED.

124825 125839 132472 135338 135631 136540 137651 MOTOR INDUSTRIES COMPANY LIMITED.

PATTERN DEEMED TO BE ENDORSED WITH THE WORDS "LICENCE OF RIGHT"

The following patents are deemed to have been endorsed with the words, 'Licence of right" under Section 87 of the Patents Act, 1970. The dates shown in crescent brackets are the date of the patents.

the pate	nts.	
No. I	Date	Title of the invention
142873	10-05-1974	Method of oxidising di-or trimethyl benzenes with molecular oxygen to benzene di-or tri-carboxylic acid.
143350	19-03-1975	A process for preparing a mixture of organo titanates.
143501	02-05-1975	A process and apparatus for producing a fuel gas by partially combusting a fuel that contains ash and yields a hot product gas containing sticky particles.
143507	15-05-1976	Method for the preparation of titanate phosphite adducts.
143755	13-11-1975	An improved process for the manufacture of a pancreative product for use for bating hides and skins in leather manufacture, and for the stipping of gelatine from photographic and X-Ray films.
143768	22-01-1975	Method of refining a chromium containing steel.
143909	21-08-1985	Production of high structure furnace carbon blacks.
144109	01-12-1975	Separation of hydrogen and carbon dioxide in a process for the production of hydrogen and carbon dioxide and an apparatus thereof.
145230	29-09-1977	Process and reactor for the partial combustion of pulverised coal.
145231	08-09-1976	Process for separating and recovering unreacted ammonia and ammonium carbonate in urea synthesis.
145275	28-01-1977	Method of regenerating coke con- taminated catalyst with simultaneous combustion of carbon monoxide.
145356	10-05-1976	Process for the manufacture of grannular activated carbon from Sule bituminous coal leached with dilute inorganic acid.
145570	20-11-1976	Process for the production of copper sulfate from chalcopyrite.
145965	05-10-1977	carboxylic acids.
146351	07-05-1976	of titanium.
146546		degree of polymerisation of at least 800 from pulp bagasse.
146570		ported nickel catalysi.
14664	4 26-11-1977	Process for the production of carbon black.
14666	6 18-05-1978	3 A process for bleaching text le being cotton and its blends and an equip- ment for it.
1.1670	2 15 00 107	7 Thanks Co

15-09-1977 Process for - manufacturing

violet pigments.

hydrocarbons with two and

carbon atoms per molecule.

A process for the preparation of

olefin

three

COMMERCIAL WORKING OF THE PATENTED INVENTIONS CHEMICAL ENGG LIST NO. VI

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar year 1983, generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licences for the purpose.

S. No.	Patent No.	Date of Pater	nt Name & Address of patentees	Titles of the invention
1	2	3	4	5
1.	1400003	·21-11-1973	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan Italy	Process for recovering aromatic hydrocarbons.
2.	140031	6-2-1974	MITSUI TOATSU CHEMICAL INC. of No. 2-5-, Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan.	Method of recovering unreacted ammonium carbonate in urea synthesis.
3.	140052	4-5-1974	CRAWFORD BROWN MURTON of 1906 Brushaliffe Road, Pittsburgh, State of Pennsylvania, 15221, U.S.A.	Method for refining iron-base metal.
4.	140155	26-4-1973	UOP INC. of 10 UOP.Plaza-Algonquin & Mt. Pros- pect Road, Des Plaines, Illinois, U.S.A.	Multiple stage production of low sulfur fuel oil.
5.	140178	17-10-1973	POLYSAR LTD. of Samia, Ontario, Canada	Vulcanization of chlorobutyl and bromobutyl.
6.	140179	13-11-1973	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt, Main 80, F.R.G.	Continuous process for preparing copper phthalocyanins,
7.	140201	12-11-1973	SHERRITT GORDON MINES LTD. of 2800 Commerce Court West, Toronto, Ontario, Canada.	Recovering of zinc sulphides by direct pressure leaching.
8.	140212	27-12-1972	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New York, U.S.H	A process for refining molten aluminium.
9.	140223	21-12-1973	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the production of dimethylether.
10.	140240	24-1-1973	Do.	Process for recovering isoprene from a mixture of isoprene and other hydrocarbons.
11.	140246	12-3-1974	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands	A process for the preparation of hydrogen rich gas.
12.	140296	16-1-1974	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, F.R.G.	Process for the after treatment of an azo pigmen
13.	140305	24-1-1973	Do.	Process for the preparation of azo pigments
14.	140306	24-Ĩ-1973	Do.	Process for preparing new N-(aminobenxyl) amino aryl sulfuric acids
15.	140315	17-10-1974	CRAWFORD BROWN MURTON of 1906 Brushcliffe Road, Pittsburgh, Pennsylvania 15222, U.S.A.	Method for refining pig iron in to steel
16.	140366	22-1-1972	HOECHST AKTIENGESELLSCHAFT	Production of vinyl chloride by thermal
17.	140379	22-12-1973	of 6230 Frankfurt Main 80, FRG. Do.	cracking of 1, 2, dichloroethane Process for the purification of copper phthalocyanine
18.	140428	1-2-1974	FUJI PHOTO FILM COI LTD. of No 210, Nakanuma Minami- Ashigara shi, Kanagawa, Japan.	Colour photographic light sensitive material
19.	140435	15-3-1974	Do.	Colour photographic light sensition
20.	140449	27-3-1974	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt Main 80, FRG.	Process for the preparation of monoazo pigments
21.	140477	6-9-1973	JOSEPH JOHNS SCHONS of 778 Drake Lane, Rivervale, State of New Jersey, U.S.A.	Preparation of liquid fuel.

1	2	3	4	5
22.	140487	24-1-1973	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, FRG.	Process for the preparation of monoazo pigments
23.	140550	9-11-1973	DEUTSCHE GOLD-UND SILBER-SCH- EIDFANSTALT VORMALS ROESSLER of 9 Weiss frauenstrasse, Frankfurt (Main' FRG.	
24.	140583	14-8-1973	THE RUBBER RESEARCH INSTITUTE OF MALAYA of 260 Jalan, Ampang, Kuala, Lumpur, Malaysia.	Dispersable natural rubber
25.	140656	29-11-1973	TEXACO DEVELOPMENT CORPORATION of 135 East 42nd street, New York, 10017 US.A.	Process for the recovery of carbon from a water tispersion therof
26.	140659	22-12-1973	HOECHST AKTIENGESELLSCHAFT of 6230 Fraukfut/Main 80, FRG.	Process for the preparation of pure organic pigment
27.	140727	23-11-1973	THE LUBRIZOL CORPORATION of P.O. Box 3057, Euclid station, Cleveland, Ohio, 44117, U.S.A.	Process for preparing basic alkalı sulfonate dispersions.
28.	140728	26-12-1973	RUBBER AND PLASTICS RESEARCH ASSOCIATES of Great Britan, of Shawbury, Shrewsbury Shropshire, England.	A method of preparing finely divided vulcanized rubber
29.	140732	11-3-1975	PFIZER INC. of 235 East 42nd street, New York, State of New York, U.S.A.	Immobilization of microbial cells.
30.	149734	3-8-1973	CLUPAK INCORPORATED of 530 Fitth avenue, New York, State of New York, 10036, U.S A	Straw paper & process of making the same
31	140738	4-12-1973	HOECHST AKTIFNFESELLSCHAFT of 6230 Frankfurt/Main 80, FRG.	One package polyvinyl ester adhesives
32.	140780	5-10-19**4	UOP INC of Ten UOP Plaza-Algonquin & Mt. prospect Road, Des Plaines U S.A.	Method for the hydrometallurgical recovery of nickel from a lateritic nickel ore.
33.	140782	12-12-1974	THE LUBRIZOL CORPORATION OF BOY 17100 Euclid Station, Cleveland Ohio 44117, U.S.A.	N Process for preparing amine containing organic composition.
34.	140809	17-9-1973	SHERRITT GORDON MINES LTD. of 2800 Commerce Court West, Toronto, Ontario, Canada.	Production of nickel powder from impure nickel compounds
35.	140814	7-1-1971	THE GOOD YEAR TIRE & RUBBER CO of 1144 East Market Street, Akron, Ohio U.S.A.	Method for preparing pigmental polyethylene terepihalate
36.	140820	20-3-1974	FMC CORPORATION of 633 Third Avenue, New York, 17, U.S.A.	Briquetting of reactive coal calcinate with high temperature coke oven pitch.
37.	140836	21-2-1975	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main, 80 FRG.	Dyestuff composition for the dyeing & printing of cellulose fibre materials.
38.	140854	28-11-1973	HITACHI LTD. of 4, 1-Chome, Marunouchi, Chiyodaku, Tokyo, Japan.	A process for producing a novel thermosetting resin.
39.	140861	2-8-1974	UOP INC. of Ten UOP Plaza-Alqanquen & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	H ₁ drogen fluoride alkylation process.
40.	140863	26-9-1974	MONSANTO COMPANY of 800 North Lindbergh Boulevard, St. Louis, Of Missouri, 63166, U.S.A.	A continuous process for the manufacture of ethyl benzene.
41.	1,40878	11-12-1973	METALLURGICAL PROCESS LTD. ETC. of Trust Corporation of Bahamas Bldg., West Bay street, Nassau, Bahamas.	Preparation of feed material for a blast furnace.

1	2	3	4	5
42	140881	4-1-1974	DR·C. OTTO & COMP. GMBH. of Bochum, West Germany.	A pressure reactor for producing a combustible gas.
43.	140900	14-2-1975	CANADIAN INDUSTRIES of 630 Dorchester Boulevard West Montreal H3C 2R3 Province of Quebec, Canada.	Stabilized air bubble-containing explosive compositions and process for manufacture there of.
44.	140918	19-7-1974	COUNCIL OF SCIENTIFIC & INDUSTRIALRESEARCH of Rafi Marg, New Delhi-1, India.	Improvements in or relating to preparation of Phosphor grade zinc sulphide, raw material for the preparation of lumine cent phosphors useful luminescent devices from oory for graderaw materials.
45.	140934	5-5-1973	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, FRG.	Process for preparing new water solube heavy metal complex dyestuffs.
46.	140940	14-2-1974	RHONE-PROGIL of 25 Quai Paul Documer, 92408 Courbevoie, France.	An auto cave and process for bulk pre- paration of vinyl chloride polymers or plymers using the same.
47.	140948	25-11-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B: V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	gas.
48.	140949	11-12-1974	FRIED KRUPP HUTENWERKE AKGIENGESELLSCHAFT. of 4330 Bochum, West Germany.	Apparatus for the production of metals by smelting metallurgical process.
49.	140959	27-9-1973	UOP INC. of 10UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of manufacturing a catalyst for isomerization of hydrocarbon.
50.	140961	15-12-1973	SOCIETE NATIONALEDES POUDRES ET EXPLOSIFS. of 12 Quai Henri IV, 75181 Paris, Cedex 04, France.	A process and apparatus for concentrating dilute solution of corrosive products such as acids by heating.
51.	140968	25-6-1974	SHERRITT GORDON MINES LTD. of 2800 Commerce Court West, Toronoto, Ontario, Canada.	Process for tre ating high magnesium Nickel, Ferrouslaterites; garnerites.
52.	140976	17-9-1975	SHELL INTERNATIONALE RESEARCH MAATSACHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague The Netherlands.	gas.
53.	141009	5-9-1973	HOECHSTAKTIENGESELLSCHAFT of 6230 Frankfurt/Main80,FRG.	Process for preparing new water soluble reactive dyestuffs of anthraquinone series.
54.	141013	14-11-1973	GENERAL ELECTRIC CO. of 1 River Road, Schenectady 5, New York, U.S.A.	A method of thermally curing polymeric materials.
55.	141017	19-9-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan' 30, The Huge, The Netherlands.	Process for preparation of synthetic gas.
56.	141031	15-1-1976	INTEROX CHEMICALS LTD. Hanover House, 14 Hanover Square, London WIR OBE, England.	A process for expoxidation of alkene by by reaction with peracid.
57.	141051	24-5-1972	NORTON COMPANY of 1 New Bond street Worcester, State of MASSACHUSETTS, ,U. S.A.	A method of making alumina zirconia abrasive materials.

1	2	3	4	5
58.	141060	6-3-1974	F.L. SMIDTH & CO A/s of 77 Vigerslev Alle, Copenhagen, Varby, Denmark.	A method of calcination and a plant for carrying out the same.
59.	141082	21-8-1973	THE BENFIELD CORPORATION, of 640 Spruce Lane, Berwyne, Commonwealth of Pennsylvania, U.S.A.	An ageous solution for absorbing carbon dioxide from gas mxturies.
60.	141094	10-4-1975	THYSSEN-NIDERR AG, HUTTEN AND UND WALZWERKER, of Essener Strasse 66, 42 Oberhausen, F.R.G.	A process for the manufacture of steel with improved toughness properties and a equipment for carrying out the same.
61.	141114	14-11-1973	THE LUBRIZOL CORPORATION, of Box 3057 Fuclid, station Cleveland, Ohio, 44117, U.S.A.	LUBRICANT oil compositions.
62.	141126	10-5-1974	SNAMPROGETTI .S.P.A of 16 Corso Venezia, Milan, Italy.	Partial oxidation of organic compounds and an apparatus thereof.
63.	141160	16-1-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Gas preparation process.
64.	141234	18-11-1974	SNAMPROGETTI S.P.A. of 16 Corso Vene.ia, Milan, Itlay.	A process for the preparation of polyn hydrocarbyiminoulanes.
65.	141249	22-2-1974	KEBEL UND METALLWERKE GUTE- HOFFUNG SHUTTE AG of Vahrenwalder strasse 2713000 Han- nover West Germany.	Method & apparatus for the production of copper slad aluminium or aluminium allay wire and the wire so produced.
66.	141 2 61	6-6-1974	JOSEF MEISSNER of Bayenthalburte 16—29 Koln51 F.R.G·	A method for reprocessing the final acids of the nitro glycerin production
67.	141324	5-5-1976	INDIAN EXPLOSIVES LTD. of 34 Chowringhee, Calcutta-16 West Bengal India.	Cap Institive dry blasting agent composi- tions and method of preparing the same
68.	141332	5-3-1974	PPG INDUSTRIESINC- of one Cateway Ceter, Pittsburgh 22, State of Pennsylvania U.S.A.	Method and apparatus for manufacturing
69.	141346	15-1-1974	MITSUI TOATSU CHEMICALS INC. of 2—5,3cnome, Kasumingaseki Chiyoda ku Tokyo Japan.	Process for preparing coloured organic materials using asymmetric theoindigoid compounds as the colouring component.
70.	141354	8-5-1974	IMPERIAL CHEMICAL INDUSTRIES LTD of Imperial Chemical House, Mill bank London SWI 3 JE England.	Method and apparatus for the treatment of liquid borne biologically degrdable waste materials
71.	141367	19-3-19 75	UNION CARBIDE CORPORATION 270 Park venue, New York State of New York 10017 U.S.A.	Improved protection heated caste iron vessel used to contain a for externally reactive molten metal
72.	141433	6-3-1974	SAINT GOBAIN INDUSTRIES of 62 Boulevard Victor Hugo, Neuilly Sir Seine France.	Method and apparatus for the production of fibrous materials
73.	141438	4-7-1973	GENERAL ELECTRIC CO. of 1 River Road, Schenectady S New York U· S.A.	Abrasive bodies of finaly divided cubic boron nitride crystals and process for preparing same
74.	141441	7-1-1974	BRITISH OXYGEN COMPANY of Hammer smith House, London W6 9DX England	Process & Apparatus for sewage treatment
7 5.	141443	16-1-1974	HOECHS I AKTIENGESELLSCHAFT of 6230 Frankfurt Main 80 F.R.G.	Process for compressing ketene

COMMERCIAL WORKING OF PATENTED INVENTION CHEMICAL ENGG. LIST No vii

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act 1970, in respect of Calender year 1983 generally on account of want of request for licences to work the Patented Inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name & address of the Patentees	Title of the Invention
1	2	3	4	5
1.	141462	20-3-1974	RHONE PROGIL of 25, Quai Paul Doumer, 92408 Courbevoie, France.	Bulk polymerization of vinyl chloride
2.	141482	13-2-1976	UOP INC of Ten UOP Plaza, Algoquin & Mt Prospect Roads, Des Plaines, Illinois 60016 U.S.A.	Mehod for preparing a catalyst composi- tions containing an immobilized emzyme conjugate and the catalyst compo- sition so prepared.
3.	141491	3-5-1975	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH of Rafi Marg, New Delhi-1 India	Improvements in or relating to calcium halophosphate phosphor for use in fluores cent tube lights.
4.	141513	14-1-1974	BRITISH OXYGEN CO of Hammers Smith House, London-W6 9DX England.	Process & apparatus for treatment of liquids.
5.	141515	20-2-1974	COMBUSTION ENGINEERING INC of 1000 Prospect Hill Road Windsoor, Connecticut U.S.A.	Apparatus for producing Na ₂ S from Na ₂ SO ₄ .
6.	141524	19-12-1974	MIDREX CORPORATION of One NCNB Plaza, Charlotte North	Process for the continuous passivationo sponze iron particles.
7.	141640	19-3-1974	FUJI PHOTO FILM CO LTD of No 210 Nakanuma, Menami-Ashigarashi. Kanagawa Japan	Colour photographic materials and method for preparing the same.
8.	141676	9-1-1974	CASTROL LTD of Burmah House, Piper's way, Swindon, Wiltshire England.	Hydraulic system containing an ortho silicate ester hyhraulic fluid.
9.	141682	16-1-1974	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt, Main 80 FRG	Process for the transforming a disazo pigment in to a novel physical forms.
10.	141683	16-1-1974	Do.	A process for transforming a disazo pigment into a novel physical form.
11.	141684	16-1-1974	Do.	A method of transforming a disazopig ment into a novel physical form.
12.	141717	15-7-1976	AIKOH CO LTD of No 1-39 2-Chome Ikenohata Taito-Ku, Tokyo, Japan	A method for the desulfurization of molten iron.
13.	141731	22-11-1974	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH of Rafi Marg, New Delbi-1 India	Improvement he process for of m-dinitrobenzene to m-phenylene diamine.
14.	141736	4-5-1974	UOP INC of Ten UOP Plaza Algoquin & Mt Pros- pect Roads, Des Plaines, Illinois, U.S.A.	Non regenerative HF alkylation process.
15.	141742	12-6-1975	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80 FRG	Purification of phosphoric acid.
16.	141752	13-3-1974	UDDEHOLMS AB of Uddeholm, Hagfors, Sweden	Apparatus & Process for treating a molten metal with a gas/solid.
17.	141811	14-5-1974	LINDE AKTIENGESELLSCHAFT of Hildastr 2—10 6200 Wiesbaden, West Germany.	A process for the recovery of desired components observed during special scrubbing process by a scrubbing liquid from a crude gas.
18.	141827	12-8-1976	ELI LILLY & CO, of 307 East Mc. Cary Street, City of Indiana Polis State of Indiana U.S.A.	Process for preparing N-alkyl diphenyl & amine,

1	2	3		5
19.	141861	20 9-1974	COUNCIL OF SCIENTIFIC & 'NDUS- TRIAL RESEARCH of Ran Marg, New Dellu-1 India	Improvements in o relating to a process for the isome ization of sulphonic acids
20.	141886	6-3-1974	NORSK HYDRO A S. of Oslo Norway of Bygdy Alia-2 Norway	Method & means for converting a liquid in the form of a melt of concentrated warm or hot solution in to a mass or body of additined independent prills.
21.	141919	6-10-1975	NUCHEM PLASTICS LTD of 20/6 Milestone Mathura Road Faridabad Haryana-121002 India.	Process for the manufacture of urea for- maldehyde resins
22.	141940	13-2-1075	LIBBEY OWENS FORD CO. of 811 Medison avenue, Toledo, Ohio U S A	He it treating glass-sheets
23.	141980	18-4-1975	TOYAMA CHEMICLS CO. LTD of 1—18 Kayabacho, Nihonbasi Chuo-ku Tokyo Japan.	Process for producing novel penicillins and cephalosporins
24.	141990	30-4-1975	MITSUI TOATSU CHEMICALS INC of 2-55 3-chome, Kasumigaseki, Chiyoda Tokyo Japan.	Method of colouring of textiles and like materials with assymetric thioindigoid compounds.
25.	142035	21-8-1975	NUCHEM PLASTICS LTD of 54 Industrial Area, Faridabad-121001 Haryana India.	A process for producing formaldehyd or melamine formaldehyde moulding powders.
26.	142067	30-4-1974	SYNTEX (U.S.A.) INC of 3401 Hill View Avenue Palo Alto California 94304 U.S.A.	Contact lens having increased oxygen permeability.
27.	142142	22-9-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH of Rafi Marg, New Delhi-1 India	Improvements in or relating to inhibition of corrosion of steel in cooling water systems
28	142203	15-4-1974	UOP INC of Ten UOP Plaza Algowum & Mt Pros- pect Roads, Des Plames, Illmois, U.S A	A process for the catalytic hydro desul- furization of an asphaltene containing hydro carbonaceous charge stock.
29.	142214	25-6-1974	SHERRITT GORDON MINES LTD. of 2800 Commerce Court West, Toronto Ontario Canada	A process for recovering Nickel in elemental form
30.	142231	24-4-1974	DR. C OTTO & COMP GMBH of 463 Bochum West Germany	Improvements in or relating to a process for the treatment of gases emitted by coke ovens,
31.	142236	22-8-1974	MITUBISHI RAYON CO LTD of No 3—19 Kyobashi 2 - chome Chuoku Tokyo Japan.	A process for preparing an impact resistant thermoplastic graft copolymers.
32.	142240	7-10-1974	THE BOARD OF THE RUBBER RESEARCH INSTITUTE of Malaysia or 260 Jalan Ampang P.O Box 150 Kuala Lumpur Malaysia	Treatment of rubber.
33.	142291	4 6-1974	Do.	Treatment of natural rubber
34.	142299	7 9-1974	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH of Rafi Marg, New Delhi-1 India	Improvements in or relating to a process for the production of anthraquinone.
35.	142300	Do	Do.	A process for the recovery and puri- fication of anthracene from coal tar fractions
36	142307	8-10-1975	NUCHEM PLASTICS LTD. of 20/6 Milestone Mathura Road Farida- bad Harayana-121002 India	A device for concentration of area formaldehyde resus
37.	142311	8-11-1974	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80 FRG	Process & device for drying synthetic fibrous materials
38.	142314	24-12-1975	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH of Rafi Marg, New Delhi-1 India	Improvements in or relating to the electrolytic reduction of 2, 4-dinitrolune to 2, 4-diamino tolune

1	2	3	4	2,
39	142326	5-12-1974	THE LUBRIZOL CORPORATION of Box-17100 Euclid station Cleveland Ohio-441177 U.S.A.	Process for preparing phosphorous nitrogen and sulfur containing lubricant additives.
40.	142330	19-6-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel van Bylandtlaan 30 The Hague, The Netherlands	Process and apparatus for the gasification of oil.
41.	142344	13-9-1974	MAGNESIUM ELECTRON LTD. of Lumn's Lane Clifton Junction Swinton Manchester England.	A process for making hydrided magnesium alloys.
42.	142351	22-11-1975	NUCHEM PLASTICS LTD. of 20/6, Milsetone Mathura Road Farida- bad-121002 Haryana India.	A process for the preparation of polycarbonates,
43.	142374	11-11-1974	DR. COTTO & COMPGMBH of Bochum West Germany	Process & apparatus for removing amonia from gases particularly from coke oven gases.
44.	142394	24-4-1974	Do.	A process for removing gaseous ammonia hydrogen sulphide and hydrogen cyan- ide forming part of gas from coke plants and the like.
45.	142439	23-10-1975	MITSUI TOATSU CHEMICALS INC of N 2—5 Kasumigaseki 3—chome chiyoda ku Tokyo Japan.	Process for recovering amonia and carbon dioxide from water vapour generated in concentrating an aqueous urea soln.
46.	142454	22-4-1977	UNION CARBIDE INDIA LTD. of 1 Middleton street Calcutta-700016 West Bengal India.	Method for the production of activated mangenese dioxide.
47.	142466	13-8-1974	SOLVAY & CIE of 33 Rue du Prince Albert, B-1050 Brussels Belgium.	Process for the low pressure polymerization of olefins in the presence of solid catalytic complexes.
48.	142467	24-9- 1974	SUN VENTURES INC of 100 Motsonford Road, Rodner Pen- nsylvania 19087 U.S.A.	Catalytic ammoxidation process.
49.	142 468	Do.	Do.	Ammoxidation process for the preparation of nitriles from m & p-xylenes.
-50 .	142469	30-10-1974	CLUETT PEABODY & CO. of 433 River street, Troy New York U.S.A.	A method and apparatus for the recovery of ammonia from gas mixture.
51.	142482	18-7-1974	CESKOSLOVENSKA AKADEMIE VED of Praha, Czechoslovakia.	Method for the preparation of smul sions and pastes.
52.	142494	12-8-1974	NIPPON STEEL CORPORATION of No. 6-3 2-chome te-machi chiyoda-ku Tokyo Japan.	A process for producing a soot free reducing.
53.	142509	1-10-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPU B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Improvements relating to high pressure gasifcation.
54.	142516	2-8-1974	MITSUBISHI GAS CHEMICAL CO INC of 2-5 Marunouchi 2—chome Chiyoda ku Tokyo Japan.	Improvement in or relating to the production of sodium formate solutions.
55.	142549	2-7-1,974	SOLVAY & CIE of 33 Rue du Prirnce Albert B-1050 Burussels Belgium	Process for the manufacture of polylactone from 2-B-dichloropropionic acid or its derivatives.
56.	142595	20-11-1974	METALLGESELSCHAFT AKTIENGESEI LSCHAFT of 16 Frankfurt A. M. Reuterweg 14 W. Germany.	- Process of simultaneously producing methanol and methane.
57.	142607	21-8-1975	NUCHEM PLASTICS LTD. of 54 Industrial area, Faridabad -121001 Haryana India.	A process for the preparation of urea formaldehyde or malamine formalde- hyde moulding powders.

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58.	142610	12-12-1974	NORTON CO. of 1 New Bond street, Worcester State of Massachusetts U.S.A.	Process for preparing zirconia alumina abrasivegrits.
59.	142611	15-1-1976	NUCHEM PLASTICS LTD of 20/6 Milestone Mathura Road Farida bad Harayana-121002 India.	A process for the preparation of trioxane
60.	142629	1-11-1974	SUN VENTURES INC of 240 Radnorchester Road, St. Davids Pennsylvanja-19087 U.S A.	Process for the preparation of block copolymer of poly dioxa-aryl-amide and polyamide.
61.	142630	Do.	Do.	Process for the preparation of block copolymer of poly dioxamide and poly-yamide.
62.	142631	Do.	Do.	A process for the preparation of block copolymer of polyoxa amide and polyamide
63.	142632	Do.	Do.	Process for the preparation of block copolymer of poly dioxa arylamide) and polyamide
64.	142657	30-10-1975	UOP INC of Ten UOP Plaza Algoquin Mt Procpect Roads, Des Plaines, Illinois U.S.A.	Improvements in fluidized catalystic process
65.	142695	19-1-1976	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH of Rafi Marg, New Delhi-1 India	A process for the preparation of pure cholesterol from buffalo and goat spinal cord.
6 6 .	142706	8-7-1977	Do.	Improvements in or relating to recovery of zinc by-product compounds such as skimmings froms gilvaniising industry waste from the zinc oxide manufacturing plants and by product zinc hydro oxide or zinc oxide from the chemical industry.
67.	142727	22-8-1974	HOECHST AKTIENGESELSCHAFT of 45 Brunning strasse Frankfurt Main F.R.G.	Process for the preparation of new water soluble yellow reactive dyes.
68.	142825	2-9-1974	Do.	Process for the preparation of water soluble monoazo compounds.
69.	142838	13-2-1976	METALLGESELLSCHAFT AG of 16 Frankfurt A.M. Reuterweg 14,W. Germany.	Process of treating raw gas produced by the pressure gasification
7 6.	142846	22-4-197 5	SNAMPROGETTI S.P.A. of 16 Corso Venezia Milan Italy	Process for producing an improved catalytic materials
71.	142853	3-9-1975	UOP INC of Ten UOP Plaza Algonquin & Mt Prospect Roads, Des Plaines, Illinois U.S.A.	A process for the dehydrogenation of hyd ocarbons.
72.	142860	20-12-1975	MAGNESIUM ELEKTRON LTD of Lumn's Lane, Slifton Junction Swinton, Manchester, England	A method of making a magnesium base alloy.
73.	142881	22-1-1975	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main FRG	Process for the continuous dyeing of cellulose fibres with reactive dyestuffs.
74.	142975	14-10-1974	RHONE PROGIL S.A. of 25 Quai Paul Deumer 92408 Courbe- voice France	Process for the preparation of aluminium hydroxy chlorides
75.	143021	3-9-19 7 4	UDDEHOLMS AB of Uddeholm, Hagfors Sweden	A process for reduction of reducible metal oxides in induction heated furnaces.

RENEWAL FEES PAID

126995 127163 131795 134835 135003 135555 135784 135899 136017 136241 136702 136812 137396 137785 137797 138289 138543 138830 138342 139042 139301 139370 139884 140143 141185 141840 141923 142093 142182 142591 142718 142883 143316 143329 143388 143839 143850 144078 144269 144332 144800 144934 145333 145393 145491 145646 145798 145825 146161 146194 146984 147023 147277 147518 147692 147878 147962 148038 148208 148286 148382 148417 148471 148566 148584 148652 148653 148657 148675 148730 148813 148925 148978 149006 149025 149059 149113 149181 149398 149413 149464 149535 149556 149570 149632 149659 149755 149819 150007 150009 150117 150136 150137 150138 150139 150140 150141 150142 150363 150466 150692 150693 150772 150774 150830 150843 150862 150918 151105 151106 151140 151163 151270 151311 151316 151328 151387 151395 151396 151430 151470 151616 151691 151697 151698 151776 151899 151930 151934 151935 151943 151975 152010 152011 152012 152015 152055 152057 152058 152059 152095 152127 152130 152136 152139 152178 152236 152237 152240 152286 152304 152308 152316 152350 152399 152416 152433 252504 152550 152650 152831 152834 152850 152862 152874 152925 152928 152951 153009 153010 153029 153130 153209 153210 253214 153215 153222 153275

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149832 granted to Ereco Chemicals for an invention relating to "An inverted phase aqueous blasting composition and method of preparation thereof".

The patent ceased on the 14th February, 1984 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 16th March, 1985.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 22nd August 1985 under Rule 69 of the Patents Rules. 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be tiled with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149406 granted to Josef Martin Feuerungsbau GMBH for an invention relating to "grate covering for mechanically moved step shaped furnace grates of large furnaces",

The patent ceased on the 13th February, 1984 due to non-payment of renewal fees within the prescribed time and the cessaotn of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 15th March, 1985.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 22nd August 1985 under Rule 59 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's inerest, he facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act. 1970 for the restoration of Patent No. 139917 granted to Dash Fasteners (Private Ltd.

for an invention relating to "Iprovements in or relating to expansion fasteners."

The patent ceased on the 24th June, 1984 due to monpayment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, Jated the 27th April, 1985.

Any incrested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 22nd August 1985 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents' interest, the facts upon which he bases his case and the relief he seeks shall be filed with the notice or within one month from the date of the notice.

14

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 139862 granted to Dash Fastners Private Ltd. for an invention relating to "a mechanical device for converting rotary motion of an electrical or hand drilling machine into percussive hammer blows."

The patent ceased on the 15th June, 1984 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 27th April, 1985.

Any incrested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 22ad August 1985 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents' interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Noice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 141687 granted to Louis Bucalo for an invention relating to "device for testing for the pressure of micro-organisms".

The patent ceased on the 11th February, 1984 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, Jated the 29th March 1985.

Any inerested person may give notice of opposition to the restoration by leaving a notice on Form 32 in displicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 22nd August 1985 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents' interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 143444 granted to Council of Scientific and Industrial Research for an invention relating to "hydrocarbon vapour detector tube for petroleum products".

The patent ceased on the 24th March, 1984 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 27th April, 1985.

Any incrested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 22nd August 1985 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents' interest, the facts upon which he bases his case and the relief he seeks, shall be illed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act. 1911.

The date shown in the each entry is the date of registration of the design included in the entry:

- Class 1. No. 155326. Suzuki Jidosha Kogyo Kabushiki Kaisha, a corporation duly organized and existing under the laws of Japan, Having its principal Place of business at 300, Kamimura Takatsuka, Hamana-gun, Shizuoka-ken, Japan. "Motor Bicycle". 24th January, 1985.
- Class 1. No. 155410. Suzuki Jidosha Kogyo Kabushiki Kaish, the laws of Japan, having its principal place of business at 300, Kamimura Takatsuka, Hamanagun, Shizuoka-ken, Japan. "Motor Bicycle". 14th February, 1985.
- Io. 155534. Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worsi, Bombay 18(WB), Maharashtra State, India, an Indian Company. "a Pocket Radio". 28th March, 1985. Class 3. No. 155534.
- o. 155535. Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18(WB), Maha-rashtra State, India, an Indian Company. "a Pocket Radio". 28th March, 1985. Class 3. No.
- Class 3. No. 155108. Interlego A/S, a Danish Company, of 'Aastvej 1, DK-7190 Billund, Denmark. "a Toy airplane". 30th November, 1984.
- Class 3. No. 155109. Interlego A/S, a Danish Company, of Astvej 1, DK-7190 Billund, Denmark, "a Toy helicopter". 30th November, 1984.
- Class 3. No. 155117. Interlego A/S, a Danish Company, ot Astvej 1, DK-7190 Billund, Denmark, "Toy Conveyor". 30th November, 1984.
- Class 3. No. 155118. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Toy Paddle steamer". 30th November, 1984.
- Class 3. No. 155120, Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Toy roof element with hatch". 30th November, 1984.
- Class 3. No. 155119. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark, "a Toy slide". 30th November, 1984.
- Class 3. No. 155115. Interlego A|S. a Danish Company of Aastvej 1, DK-7190 Billund, Denmark. "a Toy ferris wheel". 30th November, 1984.
- o. 155496. Asian Advertisers, 20, Kal Bhavan, 3, Mathew Road, Opera House, Bombay-400004, Maharashtra, an Indian Partnership Firm. "Pen Stand". 16th Merch, 1985.
- Class 3. 155513. Narendra Kumar Jain, Indian National, 82-B, Meher Apartments, Anstey Road, Bombay-400 026. Maharashtra State, India. "Trolley". 21st March, 1985.
- Class 3. No. 155110. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark, "a Toy building element". 30th November, 1984.
- Class 3. No. 155111. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark, "a Toy building element". 30th November, 1984.
- Class 3. No. 155112. Interlego A/S, a Danish Company, of Aastvej 1. DK-7190 Billund, Denmark. "a Toy building element". 30th November, 1984.
- Class 3. No. 155113. Interlego A/S, a Danish Company. of Aastvei 1. DK-7190 Billund, Denmark, "a Toy building element". 30th November, 1984. of

- Class 3. No. 155114. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Toy element". 30th November, 1984.
- Class 4. No. 155528. JG Glass Limited, of Pimpri, Pune-411018, Maharashtra State, India, an Indian Com-pany. "Soft Drink Bottle". 26th March, 1985.

Extn. of Copyright for the Second period of five years No. 154115—Class-1.

Nos. 153386, 153387, 153388, 153392, 153393, 153394, 153395, 153396, 153397, 153496, 151140, 151141—Class-3.

Extn. of Copyright for the Third period of five years

Nos. 143471, 143472, 143473, 143474, 154115-Class-1.

Nos. 153386, 153387, 153388, 153392, 153393, 153394, 153395, 153396, 153397, 143468, 143469, 143470, 153496, 151140, 151141, 143080, 143081.—Class-3.

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